ABSTRACT:

An image processing method for extracting a threadlike structure (GW) represented in an image, comprising a phase of acquisition (10) of a sequence of images, including an image of a present instant (t) in which the threadlike structure is to be extracted and an image of a past instant (t-1) in which the threadlike structure is detected as a string of points (G_{t-1}), and further comprising a phase of prediction (20) of a silhouette ($\hat{G}_t$) of the threadlike structure estimated from said detected string of points (G_{t-1}), of the image of the past instant, a phase of pursuit (30) for extracting a final string of points (G_t) representing the threadlike structure in the image of the present instant t, including steps of estimation of constraints (C2$_t$, θ) based on said silhouette ($\hat{G}_t$) for performing said extraction.

FIG.1.